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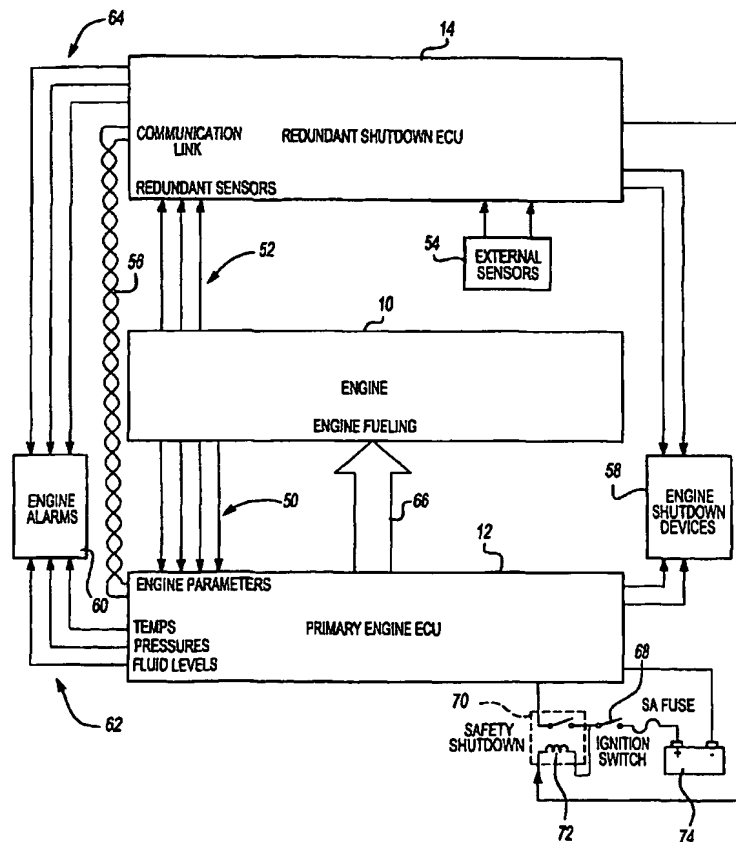
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(54) Title: REDUNDANT ENGINE SHUTDOWN SYSTEM



(57) Abstract: An engine shutdown system is provided that includes an engine control module (ECM) (12) having sensors (20, 22, 24, 26, 28, 30, 34, 36) that can activate an engine shutdown sequence. A set of redundant sensors (20', 22', 24', 26', 28', 30', 32', 34', 36') and a redundant engine control module (RECM) (14) can also activate an engine shutdown sequence independent of the ECM. Engine operating parameters are monitored by sensors to determine if one of the engine parameters deviates from an acceptable level. If the engine control determines that a parameter has exceeded a predetermined level, an engine shutdown signal may be generated by either the ECM or RECM that may cut off the fuel supply, interrupt an ignition circuit, or activate external engine shutdown devices and may also activate alarm and message panels. A redundant engine shutdown system is also provided to disable the primary engine control unit.

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